## Introduction

The suggested aims of this section is for students to learn about Pekapeka's fish and invertebrate that contribute to the wetlands biodiversity. Students will have the opportunity to study and identify aquatic species in and around Pekapeka.

This resource provides information about fish and invertebrate at Pekapeka and includes a list of books and websites suitable for students to further their knowledge of these, and other species.

Activity sheets can be manipulated and adjusted to suit the intended learning outcomes and photographs can be used as teacher aids or included in classroom activities, powerpoints and for other curricular activities.

The following activities are based on 'pre-visit', 'on site' and 'post visit' categories and can be chosen according to ages, levels, interests or needs.



#### **STUDENT INFORMATION SHEETS**

A set of Student Information Sheets have been prepared covering basic information on the main vegetation species present at Pekapeka wetland. This list is by no means exhaustive and we encourage additional research through the provided links and information sources listed on the following pages.

INFO500Long finned eel (tuna)INFO501Short finned eelINFO502GalaxiasINFO503Red DamselflyINFO504Mud SnailINFO505Waterboatman

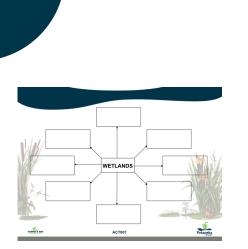


RED DAMSELFLY





## Activities



### FIELD DAY ACTIVITIES

- Sketch Pekapeka wetland inlets and outlets or drains running into the wetland. Discuss whether there are suitable fish culverts and other fish habitats in the wetland.
- · Feed the fish/eels and count how many, and what
- · Take a sample of water and identify and count the different invertebrate.

#### **POST-VISIT ACTIVITIES**

HAWKE'S BAY

- Invite a person from Fish & Game to talk about fish species in Hawke's Bay.
- Learn about native and exotic fish present at Pekapeka. What are some bad features of exotic fish (eg: eat young native fish and compete for food).
- Design your own fish passages using the ones you saw at Pekapeka to help.
- Make a food web using the species you saw at Pekapeka. Draw the different species and connect them with wool or string.
- Discuss the role of humans in the food web. In the past and now (pollution, developing roads, restoration).
- · Write a story from a fish or invertebrate point of view.
- · Use the water sample data collected on your field visit to work out the water quality depending on the types of species you find. Create pie charts or graphs to show the quantities and different species.
- Use Activity Sheets ACT005, ACT 006, ACT011, ACT012



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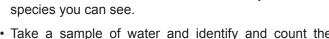


#### PRE-VISIT ACTIVITIES

- Make a tuna board game. Base it on snakes and ladders except the tuna (eel) takes you up and a hazard brings you down.
- Draw a picture of a particular species and correctly label features.
- Interview an older person in your community about tuna. Ask them about how tuna numbers have changed, how big they were, how they used to catch them. Compare the interviews and make a plan for future action.
- Brainstorm about the survival and adaptation attributes that a particular species has. For example, their behavioural characteristics (hiding under a bank), or their physical features (different fin or body shapes).
- Learn about the different cultural value of the different species.

Use Activity Sheet ACT012

- Learn about fish culverts and fish pathways. Discuss why we need them.
- Use Activity Sheet ACT007.



# າໂເ FISH & INVERTEBRATE AT PEKAPEKA

## **Additional Resources**

#### BOOKS

#### New Zealand's Freshwater Eels (NZ Wild series) By Jenny Jones

Reed 2005 ISBN: 1869485009 (pbk)

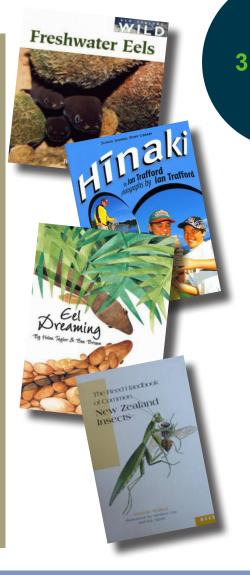
#### Hīnaki

By Jan Trafford Pub Learning Media 2000 ISBN: 0478127901 Text and photographs describe a family fishing for eels, using traditional methods to catch and prepare them.

#### **Eel Dreaming (fiction)**

By Ben Brown III Helen Taylor Pub Reed 2005 ISBN: 1869485092 (pbk) An eel who dreams of living in a better place than his swamp, goes in search of a fast flowing river with his friend Pukeko.

**The Reed Handbook of Common New Zealand Insects** By Annette Walker Illustrations by Geoffrey Cox and Eric Heath Pub Reed 2000 ISBN: 0-7900-0718-5



#### **WEBSITES**

www.hbrc.govt.nz www.teara.govt.nz www.doc.govt.nz www.landcareresearch.co.nz www.nzconservationtrust.org.nz www.wikipedia.org www.forestandbird.org.nz



#### **OTHER INFORMATION SOURCES**

www.youtube.com/watch?v=XiFuWB74RA4

School Journals:

Part 3 No. 2, 1990. Uncle Trev and the Pukeko Dog, story by Jack Lasenby. The fourth in a series of "Uncle Trev" stories, set in Waharoa in the 1930s.

Part 1 No.4, 2003. The Tame Eels of Anatoki, article by Angie Belcher. This article provides information about New Zealand long-finned eels.

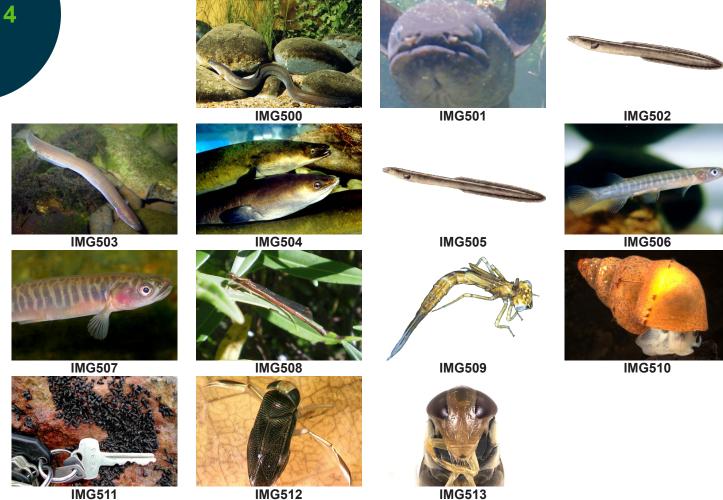
Level SI No.4, 2000. Hinaki, story by Jan Trafford. Huhu grubs and smoked eel for breakfast? Yum - but first catch your eels!

Part 3 No. 1, 1979. Waiata Tuna: Eel Song, poem by Hirini Melboune.



## G FISH & INVERTEBRATE AT PEKAPEKA

## Images



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